



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 5, 2013

Mr. George H. Gellrich, Vice President
Calvert Cliffs Nuclear Plant, LLC
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

SUBJECT: CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NO. 1 - REVIEW OF THE
OCTOBER 2012 STEAM GENERATOR TUBE INSERVICE INSPECTIONS
DURING SPRING 2012 OUTAGE (TAC NO. ME9439)

Dear Mr. Gellrich:

By letters dated August 7, 2012, and January 25, 2013, (Agencywide Documents Access and Management Systems Accession Number ML12221A225 and ML13030A134), Constellation Energy Nuclear Group, the licensee, submitted information summarizing the results of the 2012 steam generator tube inspections performed at Calvert Cliffs Nuclear Power Plant, Unit 1.

The NRC staff has completed its review of these reports and concludes that the licensee provided the information required by the Calvert Cliffs Nuclear Power Plant, Unit 1, Technical Specifications and that no additional follow-up is required. The NRC staff's review is enclosed.

If you have any questions, please call me at 301-415-3308.

Sincerely,

A handwritten signature in black ink that reads "Bk Vaidya".

Bhalchandra K. Vaidya, Project Manager
Plant Licensing Branch I-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-317

Enclosure:
As stated

cc w/encl: Distribution via Listserv



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CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT 1

STAFF REVIEW OF THE STEAM GENERATOR TUBE INSERVICE INSPECTIONS

FOR THE SPRING 2012 REFUELING OUTAGE

(TAC NO. ME9439)

DOCKET No. 50-317

By letters dated August 7, 2012, and January 25, 2013 (Agencywide Documents Access and Management Systems Accession Number (ADAMS) ML12221A225 and ML13030A134), Constellation Energy Nuclear Group, the licensee, submitted information summarizing the results of the 2012 steam generator (SG) tube inspections performed at Calvert Cliffs Nuclear Power Plant, Unit 1.

Calvert Cliffs Unit 1 has two Babcock and Wilcox International (BWI) steam generators containing 8471 tubes each. The tubing material is thermally treated Alloy 690. The tubes have an outside diameter of 0.75 inches and a nominal wall thickness of 0.042 inches. The SGs have a triangular tube pitch arrangement with 1-inch spacing between tube centers. The tubes are hydraulically expanded over the entire depth of the tubesheet in both the hot-leg and cold-leg. The tubesheet is 21.875 inches thick without the clad. The austenitic stainless steel tubesheet cladding has a minimum thickness of 0.375 inches. The lattice grid tube support structures and the U-bend supports are made of 410 stainless steel. The smallest radii for the U-bend are 3.5 inches in row 1. Rows 1 through 18 of the U-bend received stress relief treatment after bending.

The licensee provided the scope, extent, methods, and results of the SG tube inspections in the documents referenced above. In addition, the licensee described corrective actions (i.e., tube plugging) taken in response to the inspection findings.

Based on a review of the information provided, the staff concludes that the licensee provided the information required by the Technical Specifications. In addition, the staff concludes that there are no technical issues that warrant follow-up action at this time since the inspections appear to be consistent with the objective of detecting potential tube degradation and the inspection results appear to be consistent with industry operating experience at similarly designed and operated units.

Principal Contributor: C. Hunt, NRR/DE/ESGB

Date: March 5, 2013

Enclosure

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/ra/

Bhalchandra K. Vaidya, Project Manager
Plant Licensing Branch I-1
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ADAMS Accession No. ML13057A682 (*) No substantial change to Evaluation Memo, ML13036A210

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